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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Yakobson et al.

Serial No.: 10/716,721

Filing Date: November 19, 2003

Art Unit: 1754

Title: *High-Yield Method of Endohedrally Encapsulating Species Inside Fluorinated Fullerene Nanocages*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

CERTIFICATE OF MAILING UNDER 37 CFR 1.8

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Applicant hereby submits the following references in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. Copies of the references cited in the attached PTO/SB/08A are not enclosed nor required. Furthermore, pursuant to 37 C.F.R. § 1.97(g) and (h), no representation is made that this is material to patentability of the present application or that a search has been made.

Applicant hereby submits that claims of Applicant's referenced patent application are patentably distinguishable from these references.

Applicant does not believe that any fees are due at this time; however, the Commissioner of Patents and Trademarks is hereby authorized to charge any fees relating to this Information

11321-P057US

Disclosure Statement to Deposit Account No 23-2426 of WINSTEAD SECHREST & MINICK
P.C. (referencing matter 11321-P057US).

Respectfully submitted,

Date:

7/13/04



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Registration No. 38,150

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	6
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Complete if Known

Application Number	10/716,721
Filing Date	November 19, 2003
First Named Inventor	Yakobson, et al.
Art Unit	1754
Examiner Name	Unknown
Attorney Docket Number	11321-P057US

U. S. PATENT DOCUMENTS

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		Application Number	10/716,721
		Filing Date	November 19, 2003
		First Named Inventor	Yakobson, et al.
		Art Unit	1754
		Examiner Name	Unknown
Sheet 2	of 6	Attorney Docket Number	11321-P057US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Ebbesen, et al., "Large-Scale Synthesis of Carbon Nanotubes", Nature, Vol. 358 (July 16, 1992), pp. 220-222	
		Ebbesen, et al., "Carbon Nanotubes", Annual Review of Materials Science, Vol. 24 (1994), pp. 235-264	
		Iijima, et al., "Helical microtubules of graphite carbon, Nature, Vol. 354 (Nov. 7, 1991), pp. 56-58	
		Iijima, et al., "Single-Shell Carbon Nanotubes of 1 nm Diameter", Nature, Vol. 363 (1993), pp. 603-605	
		Bethune, et al., "Cobalt-catalyzed growth of carbon nanotubes with single-atomic-layer walls", Nature, Vol. 63 (1993), pp. 605-607	
		Ajayan, et al., "Growth morphologies during cobalt-catalyzed single-shell carbon nanotube synthesis", Chem. Phys. Lett., Vol. 215 (1993), pp. 509-517	
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		Seraphin, et al., "Nanocrystals into Carbon Clusters" J. Electrochem. Soc., Vol. 142 (1995), pp. 290-297	
		Saito, et al., "Carbon Nanocapsules Encaging Metals and Carbides" J. Phys. Chem. Solids, Vol. 54 (1993), pp. 1849-1860	
		Saito, et al., "Extrusion of single-wall carbon nanotubes via formation of small particles....." Chem. Phys. Lett., Vol. 236 (1995), pp. 419-426	

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		Application Number	10/716,721
		Filing Date	November 19, 2003
		First Named Inventor	Yakobson, et al.
		Art Unit	1754
		Examiner Name	Unknown
Sheet 3 of 6	Attorney Docket Number 11321-P057US		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Lambert, et al., "Improving conditions toward isolating single-shell carbon nanotubes" Chem. Phys. Lett., Vol. 226 (1994), pp. 364-371	
		Rao, et al., "Functionalised carbon nanotubes from solutions", Chem. Commun. (1996), pp. 1525 - 1526	
		Wong, et al., "Covalently functionalized nanotubes as nanomtresized probes in chemistry and biology", Nature, Vol. 394 (1998), pp. 52-55	
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		Cahill, et al., "Theoretical Studies of derrivatized Buckyballs and Buckytubes", Tetrahedron, Vol., 52 (1996), pp. 5247-5256	
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		Gonzalez, et al., "Synthesis and In Vitro Characterization of a Tissue-Selective Fullerene: Vectoring C60(OH)16AMBP", Bioorg. Med. Chem. (2002), pp. 1991-97	
		Saunders, et al., "Noble Gas Atoms Inside Fullerenes", Science, Vol. 271 (1996), pp. 1693-1697	
		Chai, et al., "Fullerenes With Metals Inside", J. Phys. Chem., Vol. 95 (1991), pp. 7564-7568	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Sheet 4 of 6	Application Number	10/716,721	
	Filing Date	November 19, 2003	
	First Named Inventor	Yakobson, et al.	
	Art Unit	1754	
	Examiner Name	Unknown	
		Attorney Docket Number	11321-P057US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Dressalhaus, et al., "Science of Fullerenes and carbon Nanotubes", Academic Press, (1996), Chap. 19, pp. 756-760	
		Issi, et al., "Electronic Properties of Carbon Nanotubes: Experimental Results", Carbon, Vol. 33 (1995), pp. 941-948	
		Cornwell, et al., "Proposed growth mechanism of single-walled carbon nanotubes", Chem. Phys. Lett, Vol. 278 (1997), pp. 262-266	
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		Aihara, "Lack of Superaromaticity in Carbon Nanotubes", J. Phys. Chem., Vol. 98 (1994), pp. 9773-9776	
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		Taylor, "General and Inorganic Chemistry", Russian Chem. Bull., Vol. 47 (1998), pp. 823-832	
		Watanabe, et al., "Graphite fluorides" (1998), Elsevier, Amsterdam	
		Kamarchik, et al., "Poly(carbon monofluoride): A Solid, Layered Fluorocarbon", Acc. Chem. Res. Vol. 11 (1978), pp. 196-300	

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Sheet 5	of 6	Attorney Docket Number	11321-P057US

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		Selig, et al., "Fluorinated Fullerenes", J. Am. Chem. Soc., Vol. 113 (1991), pp. 5475 - 5476	
		Hamwi, et al., "Fluorination of Carbon Nanotubes", Carbon, Vol. 35 (1997), pp. 723-728	
		Richter, et al., "Theory of Size-Dependent Resonance Raman Scattering fro Carbon Nanotubes", Phys. Rev. Lett., Vol. 79 (1997), pp. 2738-2741	
		Rao, et al., "Diameter-Selective Raman Scattering from Vibrational Modes in Carbon Nanotubes", Science, Vol. 275 (1998), pp. 187-191	
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		Boltalina, et al., "Formation of C60F48 and fluorides of higher fullerenes", J. Chem. Soc., Perkin Trans., Vol. 2 (1996), pp. 2275-2278	
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		Howard, et al., "How Good is Fluorine as a Hydrogen Bond Acceptor?", Tetrahedron, Vol. 52 (38) (1996), pp. 12613-12622	
		Harrell, et al., "Strong Hydrogen Bonds. II The Hydrogen Difluoride Ion" JACS, Vol. 86 (1964), pg. 4497	

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		Kniaz, et al., "Fluorinated Fullerenes: Synthesis, Structure and Properties", J. Am. Chem. Soc., Vol. 115 (1993), pp. 6060-6064	
		Fang, et al., "Raman scattering study of coalesced single walled carbon nanotubes", J. Mat. Res. Vol. 13 (1998), pp. 2405-2411	
		Mickelson, et al., "Methylated and phenylated C60 from Fluorinated fullerene precursors", J. Fluorine Chem., Vol. 92(1) (1998), pp. 59-62	
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		Gakh, et al., "Selective Synthesis and Structure determination of C60F48", J. Am. Chem. Soc., Vol. 116 (1994), pp. 819-820	
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		Hirsch, A., "Functionalization of Single-Walled Carbon Nanotubes", Angew. Chem. Int. Ed., Vol. 41(11) (2002), pp. 1853-1859	
		Boul, et al., "Reversible sidewall functionalization of buckytubes", Chem. Phys. Lett., Vol. 310 (1999), pp. 367-372	

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